(FILE 'HOME' ENTERED AT 20:49:42 ON 27 MAY 2004) FILE 'REGISTRY' ENTERED AT 20:50:36 ON 27 MAY 2004 554 S P.LKTK/SQSP T₁1 FILE 'CAPLUS' ENTERED AT 20:50:59 ON 27 MAY 2004 L2 336 S L1 19 S L2 AND STAT L317 S L2 AND (INTERFERON OR IFN#) L425 S L3 OR L4 L5FILE 'REGISTRY' ENTERED AT 20:58:57 ON 27 MAY 2004 60 S L1 AND SQL<100 L6 1.7 16 S L1 AND SQL<50 FILE 'CAPLUS' ENTERED AT 21:00:03 ON 27 MAY 2004 $\Gamma8$ 9 S L7 FILE 'REGISTRY' ENTERED AT 21:01:10 ON 27 MAY 2004 1 S L1 AND (180162-19-0)/RN L10967 S A.LKTK/SOSP L11 0 S L10 AND STAT# L120 S L10 AND (INTERFERON OR IFN#) FILE 'CAPLUS' ENTERED AT 21:04:37 ON 27 MAY 2004 416 S L10 L138 S L13 AND STAT# L14L15 5 S L13 AND (INTERFERON OR IFN#) FILE 'DGENE' ENTERED AT 21:06:49 ON 27 MAY 2004 RUN GETSEQ _____ RUN STATEMENT CREATED L16 L17 1 S L16 AND (STAT# OR INTERFERON OR IFN#) FILE 'PCTGEN' ENTERED AT 21:08:12 ON 27 MAY 2004 RUN GETSEQ _____ RUN STATEMENT CREATED L18 L19 O S L18 AND (STAT# OR INTERFERON OR IFN#) FILE 'REGISTRY' ENTERED AT 21:09:10 ON 27 MAY 2004 L20 491 S P.LATK/SQSP FILE 'CAPLUS' ENTERED AT 21:09:29 ON 27 MAY 2004 L21 245 S L20 L22 12 S L21 AND (STAT# OR INTERFERON OR IFN#) FILE 'REGISTRY' ENTERED AT 21:12:50 ON 27 MAY 2004 1 S L20 AND (391973-98-1)/RN L23 L24 1 S L20 AND (131201-27-9)/RN L25 1 S L20 AND (128826-24-4)/RN FILE 'DGENE' ENTERED AT 21:15:13 ON 27 MAY 2004 RUN GETSEQ L26 RUN STATEMENT CREATED L27 1 S L26 AND (STAT# OR INTERFERON OR IFN#) FILE 'PCTGEN' ENTERED AT 21:15:55 ON 27 MAY 2004

RUN GETSEQ

RUN STATEMENT CREATED L28 L29 0 S L28 AND (STAT# OR INTERFERON OR IFN#) FILE 'REGISTRY' ENTERED AT 21:16:30 ON 27 MAY 2004 812 S P.LKAK/SQSP L30FILE 'CAPLUS' ENTERED AT 21:17:05 ON 27 MAY 2004 L31416 S L30 L3215 S L31 AND (STAT# OR INTERFERON OR IFN#) FILE 'REGISTRY' ENTERED AT 21:19:24 ON 27 MAY 2004 L33 1 S L30 AND (249550-21-8)/RN FILE 'DGENE' ENTERED AT 21:20:29 ON 27 MAY 2004 RUN GETSEQ L34 RUN STATEMENT CREATED L35 2 S L34 AND (STAT# OR INTERFERON OR IFN#) FILE 'REGISTRY' ENTERED AT 21:22:53 ON 27 MAY 2004 L36 17 S PYLKTA/SQSP FILE 'CAPLUS' ENTERED AT 21:23:19 ON 27 MAY 2004 L37 10 S L36 FILE 'DGENE' ENTERED AT 21:24:34 ON 27 MAY 2004 RUN GETSEQ _____ RUN STATEMENT CREATED L38 FILE 'PCTGEN' ENTERED AT 21:25:03 ON 27 MAY 2004 RUN GETSEQ -----L39 RUN STATEMENT CREATED FILE 'REGISTRY' ENTERED AT 21:25:19 ON 27 MAY 2004 L40 203288 S P.LK/SQSP L413239 S L40 AND SQL<50 L42 1213 S L40 AND SQL<21 FILE 'CAPLUS' ENTERED AT 21:26:23 ON 27 MAY 2004 L431652 S L42 L44 58 S L43 AND (STAT# OR INTERFERON OR IFN#) L45 43 S L44 AND PY<2001 FILE 'CAPLUS' ENTERED AT 21:27:38 ON 27 MAY 2004 L46 43 S L43 AND STAT# L47 12 S L43 AND (STAT OR STAT1# OR STAT2# OR STAT3# OR STAT4# OR STAT FILE 'REGISTRY' ENTERED AT 21:31:18 ON 27 MAY 2004 L48 1 S L40 AND (182200-02-8)/RN L491 S L40 AND (180162-19-0)/RN L50 1 S L40 AND (180162-24-7)/RN L51 203288 S P.LK/SQSP L52 1161 S L51 AND SQL<20 FILE 'CAPLUS' ENTERED AT 21:36:01 ON 27 MAY 2004 L53 9 S L52 AND STAT FILE 'REGISTRY' ENTERED AT 21:38:01 ON 27 MAY 2004 L54 82977 S P.FK/SQSP

405 S L54 AND SQL<20 L55 FILE 'CAPLUS' ENTERED AT 21:38:31 ON 27 MAY 2004 288 S L55 L56 6 S L56 AND STAT L57 FILE 'REGISTRY' ENTERED AT 21:39:15 ON 27 MAY 2004 5621 S L54 AND SQL<100 L58 FILE 'CAPLUS' ENTERED AT 21:39:55 ON 27 MAY 2004 1485 S L58 L59 56 S L59 AND STAT L60 FILE 'REGISTRY' ENTERED AT 21:40:25 ON 27 MAY 2004 1302 S L54 AND SQL<50 L61 FILE 'CAPLUS' ENTERED AT 21:40:44 ON 27 MAY 2004 671 S L61 L62 29 S L62 AND STAT L63 FILE 'DGENE' ENTERED AT 21:43:13 ON 27 MAY 2004 RUN GETSEO RUN STATEMENT CREATED L64 1 S L64 AND STAT L65 FILE 'REGISTRY' ENTERED AT 21:44:27 ON 27 MAY 2004 L66 328578 S A.LK/SQSP FILE 'CAPLUS' ENTERED AT 21:45:23 ON 27 MAY 2004 FILE 'REGISTRY' ENTERED AT 21:45:36 ON 27 MAY 2004 5887 S L66 AND SQL<50 L67 FILE 'CAPLUS' ENTERED AT 21:46:07 ON 27 MAY 2004 3209 S L67 L68 L69 42 S L68 AND STAT L70 37 S L69 AND PY<2001 FILE 'DGENE' ENTERED AT 21:47:52 ON 27 MAY 2004 RUN GETSEQ _____ L71 RUN STATEMENT CREATED L72 9 S L71 AND STAT FILE 'REGISTRY' ENTERED AT 21:51:29 ON 27 MAY 2004 155969 S YLK/SQSP L73 1241 S L73 AND SQL<20 L74FILE 'CAPLUS' ENTERED AT 21:51:57 ON 27 MAY 2004 644 S L74 L75 6 S L75 AND STAT L76 FILE 'REGISTRY' ENTERED AT 21:53:46 ON 27 MAY 2004 1 S L73 AND (180162-19-0)/RN L77 1 S L73 AND (164917-66-2)/RN L78 1 S L73 AND (164917-68-4)/RN L79 FILE 'REGISTRY' ENTERED AT 21:57:34 ON 27 MAY 2004 554 S P.LKTK/SQSP L80 L81 16 S L80 AND SQL<50

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FILE 'CAPLUS' ENTERED AT 21:58:22 ON 27 MAY 2004
             9 S L81
L82
          FILE 'REGISTRY' ENTERED AT 21:59:34 ON 27 MAY 2004
             203288 S P.LK/SQSP
L83
                      1161 S L83 AND SQL<20
L84
          FILE 'CAPLUS' ENTERED AT 22:00:05 ON 27 MAY 2004
                     1603 S L84
L85
                            9 S L85 AND STAT
L86
          FILE 'REGISTRY' ENTERED AT 22:01:23 ON 27 MAY 2004
                   310056 S P.LA/SQSP
L87
                         809 S L87 AND SQL<20
L88
          FILE 'CAPLUS' ENTERED AT 22:03:37 ON 27 MAY 2004
L89
                        590 S L88
                           9 S L89 AND STAT
L90
           FILE 'DGENE' ENTERED AT 22:04:46 ON 27 MAY 2004
                                RUN GETSEQ
             RUN STATEMENT CREATED
L91
                              8 S L91 AND STAT
L92
                              0 S L92 AND SQL<20
L93
           FILE 'REGISTRY' ENTERED AT 22:07:25 ON 27 MAY 2004
                 2226504 S A.L/SQSP
L94
                     33419 S L94 AND SQL<20
L95
           FILE 'CAPLUS' ENTERED AT 22:08:18 ON 27 MAY 2004
                     25577 S L95
L96
L97
                            62 S L96 AND STAT
                            50 S L97 AND PY<2001
L98
           FILE 'REGISTRY' ENTERED AT 22:10:08 ON 27 MAY 2004
 \Rightarrow s 194 and (187532-48-5)/rn
                            1 (187532-48-5)/RN
                            1 L94 AND (187532-48-5)/RN
L99
=> d sqide
L99 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN
           187532-48-5 REGISTRY
 RN
           L-Glutamine, L-asparaginyl-L-threonyl-L-\alpha-aspartyl-L-alanyl-O-
           phosphono-L-tyrosyl-L-leucyl-L-seryl-L-leucyl-L-glutaminyl-L-\alpha-seryl-L-leucyl-L-glutaminyl-L-\alpha-seryl-L-glutaminyl-L-\alpha-seryl-L-glutaminyl-L-\alpha-seryl-L-glutaminyl-L-\alpha-seryl-L-glutaminyl-L-\alpha-seryl-L-glutaminyl-L-\alpha-seryl-L-glutaminyl-L-\alpha-seryl-L-glutaminyl-L-\alpha-seryl-L-glutaminyl-L-\alpha-seryl-L-glutaminyl-L-\alpha-seryl-L-glutaminyl-L-\alpha-seryl-L-glutaminyl-L-\alpha-seryl-L-glutaminyl-L-\alpha-seryl-L-glutaminyl-L-\alpha-seryl-L-glutaminyl-L-a-seryl-L-glutaminyl-L-a-seryl-L-glutaminyl-L-a-seryl-L-glutaminyl-L-a-seryl-L-glutaminyl-L-a-seryl-L-glutaminyl-L-a-seryl-L-glutaminyl-L-a-seryl-L-glutaminyl-L-a-seryl-L-glutaminyl-L-a-seryl-L-glutaminyl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-seryl-L-a-
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            PROTEIN SEQUENCE; STEREOSEARCH
 FS
 SQL 12
 NTE modified
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                  ----- location ----- description
 modification Tyr-5 -
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 HITS AT: 4-6
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SR CA

LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL
DT.CA CAplus document type: Patent
RL.P Roles from patents: BIOL (Biological study); PROC (Process); USES

Absolute stereochemistry.

PAGE 1-B

CO2H

- 1 REFERENCES IN FILE CA (1907 TO DATE)
- 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> d history

Ь6

L8

L9

L16

(FILE 'HOME' ENTERED AT 20:49:42 ON 27 MAY 2004)

FILE 'REGISTRY' ENTERED AT 20:50:36 ON 27 MAY 2004 L1 554 S P.LKTK/SQSP

FILE 'CAPLUS' ENTERED AT 20:50:59 ON 27 MAY 2004

L2 336 S L1

L3 19 S L2 AND STAT

L4 17 S L2 AND (INTERFERON OR IFN#)

L5 25 S L3 OR L4

FILE 'REGISTRY' ENTERED AT 20:58:57 ON 27 MAY 2004

60 S L1 AND SQL<100

L7 16 S L1 AND SQL<50

FILE 'CAPLUS' ENTERED AT 21:00:03 ON 27 MAY 2004 9 S L7

FILE 'REGISTRY' ENTERED AT 21:01:10 ON 27 MAY 2004

1 S L1 AND (180162-19-0)/RN

L10 967 S A.LKTK/SQSP

L11 0 S L10 AND STAT#

L12 0 S L10 AND (INTERFERON OR IFN#)

FILE 'CAPLUS' ENTERED AT 21:04:37 ON 27 MAY 2004

L13 416 S L10

L14 8 S L13 AND STAT#

L15 5 S L13 AND (INTERFERON OR IFN#)

FILE 'DGENE' ENTERED AT 21:06:49 ON 27 MAY 2004 RUN GETSEQ

RUN STATEMENT CREATED

L17 1 S L16 AND (STAT# OR INTERFERON OR IFN#)

FILE 'PCTGEN' ENTERED AT 21:08:12 ON 27 MAY 2004 RUN GETSEQ

L18 RUN STATEMENT CREATED

L19 0 S L18 AND (STAT# OR INTERFERON OR IFN#)

L20	FILE	'REGISTRY' ENTERED AT 21:09:10 ON 27 MAY 2004 491 S P.LATK/SQSP
L21 L22	FILE	'CAPLUS' ENTERED AT 21:09:29 ON 27 MAY 2004 245 S L20 12 S L21 AND (STAT# OR INTERFERON OR IFN#)
L23 L24 L25	FILE	'REGISTRY' ENTERED AT 21:12:50 ON 27 MAY 2004 1 S L20 AND (391973-98-1)/RN 1 S L20 AND (131201-27-9)/RN 1 S L20 AND (128826-24-4)/RN
	FILE	'DGENE' ENTERED AT 21:15:13 ON 27 MAY 2004 RUN GETSEQ
L26 L27	RUN	STATEMENT CREATED 1 S L26 AND (STAT# OR INTERFERON OR IFN#)
	FILE	'PCTGEN' ENTERED AT 21:15:55 ON 27 MAY 2004 RUN GETSEQ
L28 L29	RUN	STATEMENT CREATED 0 S L28 AND (STAT# OR INTERFERON OR IFN#)
L30	FILE	'REGISTRY' ENTERED AT 21:16:30 ON 27 MAY 2004 812 S P.LKAK/SQSP
L31 L32	FILE	'CAPLUS' ENTERED AT 21:17:05 ON 27 MAY 2004 416 S L30 15 S L31 AND (STAT# OR INTERFERON OR IFN#)
L33	FILE	'REGISTRY' ENTERED AT 21:19:24 ON 27 MAY 2004 1 S L30 AND (249550-21-8)/RN
	FILE	'DGENE' ENTERED AT 21:20:29 ON 27 MAY 2004 RUN GETSEQ
L34 L35	RUN	STATEMENT CREATED 2 S L34 AND (STAT# OR INTERFERON OR IFN#)
L36	FILE	'REGISTRY' ENTERED AT 21:22:53 ON 27 MAY 2004 17 S PYLKTA/SQSP
L37	FILE	'CAPLUS' ENTERED AT 21:23:19 ON 27 MAY 2004 10 S L36
	FILE	'DGENE' ENTERED AT 21:24:34 ON 27 MAY 2004 RUN GETSEQ
L38	RUN	STATEMENT CREATED
	FILE	'PCTGEN' ENTERED AT 21:25:03 ON 27 MAY 2004 RUN GETSEQ
L39	RUN	STATEMENT CREATED
L40 L41 L42		'REGISTRY' ENTERED AT 21:25:19 ON 27 MAY 2004 203288 S P.LK/SQSP 3239 S L40 AND SQL<50 1213 S L40 AND SQL<21

FILE 'CAPLUS' ENTERED AT 21:26:23 ON 27 MAY 2004 1652 S L42 L43 58 S L43 AND (STAT# OR INTERFERON OR IFN#) L4443 S L44 AND PY<2001 L45 FILE 'CAPLUS' ENTERED AT 21:27:38 ON 27 MAY 2004 43 S L43 AND STAT# L46 12 S L43 AND (STAT OR STAT1# OR STAT2# OR STAT3# OR STAT4# OR STAT L47 FILE 'REGISTRY' ENTERED AT 21:31:18 ON 27 MAY 2004 1 S L40 AND (182200-02-8)/RN L48 1 S L40 AND (180162-19-0)/RN L491 S L40 AND (180162-24-7)/RN L50 203288 S P.LK/SQSP L51 1161 S L51 AND SQL<20 L52 FILE 'CAPLUS' ENTERED AT 21:36:01 ON 27 MAY 2004 9 S L52 AND STAT L53 FILE 'REGISTRY' ENTERED AT 21:38:01 ON 27 MAY 2004 82977 S P.FK/SQSP L54 405 S L54 AND SQL<20 L55FILE 'CAPLUS' ENTERED AT 21:38:31 ON 27 MAY 2004 L56 288 S L55 6 S L56 AND STAT L57 FILE 'REGISTRY' ENTERED AT 21:39:15 ON 27 MAY 2004 5621 S L54 AND SQL<100 L58FILE 'CAPLUS' ENTERED AT 21:39:55 ON 27 MAY 2004 L59 1485 S L58 56 S L59 AND STAT L60 FILE 'REGISTRY' ENTERED AT 21:40:25 ON 27 MAY 2004 1302 S L54 AND SQL<50 L61 FILE 'CAPLUS' ENTERED AT 21:40:44 ON 27 MAY 2004 671 S L61 L62 29 S L62 AND STAT L63 FILE 'DGENE' ENTERED AT 21:43:13 ON 27 MAY 2004 RUN GETSEQ RUN STATEMENT CREATED L64 L65 1 S L64 AND STAT FILE 'REGISTRY' ENTERED AT 21:44:27 ON 27 MAY 2004 328578 S A.LK/SQSP L66 FILE 'CAPLUS' ENTERED AT 21:45:23 ON 27 MAY 2004 FILE 'REGISTRY' ENTERED AT 21:45:36 ON 27 MAY 2004 L67 5887 S L66 AND SQL<50 FILE 'CAPLUS' ENTERED AT 21:46:07 ON 27 MAY 2004 3209 S L67 L68 42 S L68 AND STAT L69 37 S L69 AND PY<2001 L70 FILE 'DGENE' ENTERED AT 21:47:52 ON 27 MAY 2004

RUN GETSEQ

L71 RUN STATEMENT CREATED 9 S L71 AND STAT L72 FILE 'REGISTRY' ENTERED AT 21:51:29 ON 27 MAY 2004 155969 S YLK/SQSP L73 1241 S L73 AND SQL<20 L74 FILE 'CAPLUS' ENTERED AT 21:51:57 ON 27 MAY 2004 644 S L74 L75 6 S L75 AND STAT L76 FILE 'REGISTRY' ENTERED AT 21:53:46 ON 27 MAY 2004 1 S L73 AND (180162-19-0)/RN L77 1 S L73 AND (164917-66-2)/RN L78 1 S L73 AND (164917-68-4)/RN L79 FILE 'REGISTRY' ENTERED AT 21:57:34 ON 27 MAY 2004 554 S P.LKTK/SQSP L8016 S L80 AND SQL<50 L81 FILE 'CAPLUS' ENTERED AT 21:58:22 ON 27 MAY 2004 9 S L81 L82 FILE 'REGISTRY' ENTERED AT 21:59:34 ON 27 MAY 2004 203288 S P.LK/SQSP L83 1161 S L83 AND SQL<20 L84 FILE 'CAPLUS' ENTERED AT 22:00:05 ON 27 MAY 2004 1603 S L84 L85 9 S L85 AND STAT L86 FILE 'REGISTRY' ENTERED AT 22:01:23 ON 27 MAY 2004 L87 310056 S P.LA/SOSP 809 S L87 AND SQL<20 L88 FILE 'CAPLUS' ENTERED AT 22:03:37 ON 27 MAY 2004 590 S L88 L89 9 S L89 AND STAT L90 FILE 'DGENE' ENTERED AT 22:04:46 ON 27 MAY 2004 RUN GETSEQ _____ L91 RUN STATEMENT CREATED 8 S L91 AND STAT L92 0 S L92 AND SQL<20 L93 FILE 'REGISTRY' ENTERED AT 22:07:25 ON 27 MAY 2004 2226504 S A.L/SQSP L94 33419 S L94 AND SQL<20 L95 FILE 'CAPLUS' ENTERED AT 22:08:18 ON 27 MAY 2004 25577 S L95 L96 62 S L96 AND STAT L97 50 S L97 AND PY<2001 L98 FILE 'REGISTRY' ENTERED AT 22:10:08 ON 27 MAY 2004 1 S L94 AND (187532-48-5)/RN L99